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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/688,568		10/17/2003	Dae-Kwang Jung	5000-1-474	2490
33942	7590	11/01/2006		EXAM	INER
CHA & RE	ITER, LI	LC	SEDIGHIAN, REZA		
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PARAMUS	PARAMUS, NJ 07652			ART UNIT	PAPER NUMBER
				2613	

DATE MAILED: 11/01/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		•	C					
		Application No.	Applicant(s)					
		10/688,568	JUNG ET AL.					
	Office Action Summary	Examiner	Art Unit					
		M. R. Sedighian	2613					
Period f	The MAILING DATE of this communication reply	on appears on the cover sheet w	ith the correspondence address					
WHI - Extended afte - If No - Fail Any	HORTENED STATUTORY PERIOD FOR FOLLOWING THE MAILING ensions of time may be available under the provisions of 37 (in SIX (6) MONTHS from the mailing date of this communicated to period for reply is specified above, the maximum statutory ure to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUNI CFR 1.136(a). In no event, however, may a ion. period will apply and will expire SIX (6) MON statute, cause the application to become Al	CATION. reply be timely filed  ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).					
Status								
1)[🛛	Responsive to communication(s) filed on	17 October 2003.						
2a)□	. ' ' <u> </u>	This action is non-final.						
3)□	·		ters, prosecution as to the merits is					
,—	closed in accordance with the practice ur	•						
Disposit	tion of Claims							
4) 又	Claim(s) 1-6 is/are pending in the applica	·						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠	Claim(s) 6 is/are allowed.							
· · · · · · · · · · · · · · · · · · ·	Claim(s) 1 is/are rejected.							
· · ·	Claim(s) <u>2-5</u> is/are objected to.							
8)[	Claim(s) are subject to restriction	and/or election requirement.						
Applicat	tion Papers		•					
	The specification is objected to by the Exa	aminer						
-	The drawing(s) filed on <u>17 October 2003</u>		shiected to by the Evaminer					
/2_3	Applicant may not request that any objection							
	Replacement drawing sheet(s) including the o	• • • •	, ,					
11)	The oath or declaration is objected to by t							
	under 35 U.S.C. § 119	1						
_	Acknowledgment is made of a claim for fo	oreign priority under 35 U.S.C. 8	§ 119(a)-(d) or (f).					
a)	)⊠ All b)□ Some * c)□ None of:							
	1.⊠ Certified copies of the priority docu	ments have been received.						
	2. Certified copies of the priority docu	ments have been received in A	application No					
	3. Copies of the certified copies of the	e priority documents have been	received in this National Stage					
	application from the International E	Bureau (PCT Rule 17.2(a)).						
*.	See the attached detailed Office action for	a list of the certified copies not	received.					
Attachmei	nt(s)							
1) 🔯 Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-94		Summary (PTO-413) s)/Mail Date					

U.S. Patent and Trademark Office PTOL-326 (Rev. 08-06)

Paper No(s)/Mail Date \_\_\_

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)

5) Notice of Informal Patent Application

6) Other: \_\_\_\_.

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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Healey et al. (US Patent Application Publication No: 2003/0007207 A1) in view of Kim et al. (US Patent Application Publication No: 2002/0159688 A1), or Gaebe (US Patent Application Publication No: 2001/0030810 A1).

Regarding claim 1, Healey teaches a Wavelength Division Multiplexing (WDM) light source apparatus (fig. 1), comprising: N SOAs (13, fig. 1) each having one end coated with a substance having a first reflection factor and the other end coated with a substance having a second reflection factor (page 2, paragraph 0034), the first reflection factor being higher than the second reflection factor (page 2, paragraph 0034), the N SOAs (13, fig. 1) modulating respective input signals (14, fig. 1) into optical signals according to a high speed data signal to be transmitted and amplifying the modulated signal (page 3, paragraph 0035, lines 9-17); a 1xN multiplexer/demultiplexer (9, fig. 1) having one end composed of N terminals (the N terminals of arrayed waveguide grating 9) and the other end composed of one terminal (the output terminal that is connected to fiber 3), the N terminal coupled with the N SOAs (13, fig. 1). Healy differs from the claimed invention in that Healy does not disclose a reflective mirror connected to the one terminal of the 1xN multiplexer/demultiplexer for reflecting a first portion of a signal received from the 1xN multiplexer/demultiplexer. However, it is well known to incorporate a mirror along the line of an optical transmission system to provide selective reflection of optical

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signal to redirect the light signal. For example, Kim teaches a 1xN Mux (2, fig. 6) that is connected to a reflective mirror (12, fig. 6 and page 2, paragraph 0028). Likewise, Gaebe teaches am optical multiplexer (515, fig. 5) and a reflective mirror (525, fig. 5 and page 4, claim 18). Therefore, it would have been obvious to a person of ordinary skill in the art at the time of invention to incorporate a reflective mirror, as it is taught by Kim or Gaebe, at the output of multiplexer/demultiplexer 9 of Healy to selectively reflect and redirect the signal light.

- 3. Claims 2-5 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. Claim 6 is allowed over prior art of record.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to M. R. Sedighian whose telephone number is (571) 272-3034. The examiner can normally be reached on M-F (from 9 AM to 5 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jason Chan can be reached on (571) 272-3022. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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M. R. SEDIGHIAN PRIMARY EXAMINER